

Streptococcus pneumoniae, Strain GA47562

Catalog No. NR-19172

Product Description:

Streptococcus pneumoniae (*S. pneumoniae*), strain GA47562 was isolated in 2006 from the blood of a patient with pneumonia in Georgia, USA. Strain GA47562 was deposited to BEI Resources as sensitive to amoxicillin, cefuroxime, ceftriaxone, cefotaxime, chloramphenicol, clindamycin, levofloxacin, linezolid, meropenem, penicillin, synercid, telithromycin, tetracycline, trimethoprim/sulfamethoxazole and vancomycin and resistant to erythromycin. NR-19172 was produced by inoculation of BEI Resources seed lot 62743351 into Todd-Hewitt broth and grown for 1 day at 37°C in an aerobic atmosphere with 5% CO₂. Broth inoculum was added to Tryptic Soy agar with 5% defibrinated sheep blood kolles, which were grown for 1 day at 37°C in an aerobic atmosphere with 5% CO₂ to produce this lot. Quality control testing was completed under propagation conditions unless otherwise noted.

Lot: 70062243

Manufacturing Date: 04AUG2023

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TEST	SPECIFICATIONS	RESULTS
Phenotypic Analysis Cellular morphology Colony morphology Hemolysis on blood agar Motility (wet mount) Catalase 1 day at 37°C in an aerobic atmosphere with 5% CO ₂ on Tryptic Soy agar VITEK® MS (MALDI-TOF)	Gram-positive cocci Report results α-hemolytic Report results Negative <i>S. pneumoniae</i>	Gram-positive cocci Circular, convex, entire, smooth and gray (Figure 1) α-hemolytic Non-motile Negative <i>S. pneumoniae</i> (99.9%)
Antibiotic Susceptibility Profile¹ Etest® antibiotic test strips 1 day at 37°C in an aerobic atmosphere with 5% CO ₂ on Mueller-Hinton agar Cefuroxime Cefaclor Ceftriaxone Ciprofloxacin Clindamycin Gatifloxacin Quinupristin/dalfopristin Rifampicin VITEK® (AST-GP74 card) Amoxicillin Benzylpenicillin Cefotaxime Chloramphenicol Ertapenem Erythromycin Levofloxacin Linezolid Meropenem Moxifloxacin Ofloxacin	Sensitive Sensitive Sensitive Report results Sensitive Sensitive Sensitive Sensitive Sensitive Sensitive Sensitive Sensitive Sensitive Report results Resistant Sensitive Sensitive Sensitive Report results Sensitive	Sensitive (0.047 µg/mL) Sensitive (0.38 µg/mL) Sensitive (≤ 0.016 µg/mL) 1 µg/mL ² Sensitive (0.19 µg/mL) Sensitive (0.25 µg/mL) ³ Sensitive (0.75 µg/mL) Sensitive (0.047 µg/mL) Sensitive (≤ 0.06 µg/mL) Sensitive (≤ 0.06 µg/mL) Sensitive (≤ 0.06 µg/mL) Sensitive (4 µg/mL) Sensitive (≤ 0.5 µg/mL) Resistant (≥ 1 µg/mL) Sensitive (≤ 0.5 µg/mL) Sensitive (≤ 2 µg/mL) Sensitive (≤ 0.06 µg/mL) Sensitive (≤ 0.25 µg/mL) Sensitive (≤ 1 µg/mL)

Certificate of Analysis for NR-19172

TEST	SPECIFICATIONS	RESULTS
Telithromycin	Sensitive	Sensitive ($\leq 0.25 \mu\text{g/mL}$)
Tetracycline	Sensitive	Sensitive ($\leq 1 \mu\text{g/mL}$)
Trimethoprim/sulfamethoxazole	Sensitive	Sensitive ($\leq 10 \mu\text{g/mL}$)
Vancomycin	Sensitive	Sensitive ($\leq 1 \mu\text{g/mL}$)
Genotypic Analysis Sequencing of 16S ribosomal RNA gene (~ 1480 base pairs)	$\geq 99\%$ sequence identity to <i>S. pneumoniae</i> , strain GA47562 (GenBank: ALCY01000009.1)	99.9% sequence identity to <i>S. pneumoniae</i> , strain GA47562 (GenBank: ALCY01000009.1)
Purity (post-freeze) 7 days at 37°C in an aerobic atmosphere with 5% CO ₂ on Tryptic Soy agar with 5% defibrinated sheep blood	Growth consistent with expected colony morphology	Growth consistent with expected colony morphology
Viability (post-freeze)	Growth	Growth

¹Minimum Inhibitory Concentration (MIC); MIC Interpretation Guideline: CLSI M100-S28 (2018)

²Clinical & Laboratory Standards Institute (CLSI) interpretation of this antibiotic test for *S. pneumoniae* is currently not available.

³Testing was performed on BEI Resources seed lot 62743351.

Figure 1: Colony Morphology



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10 OCT 2022

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